

BUB/CTE/2014-15

DATE: 16-01-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (07 days Compressive Strength)

{Project*: Construction of 3 Bus Stops in Ward No.10 (Doddabommasandra)
Vidyaranyapura Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 14-01-2015

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: Sri.K.V.Subbareddy, Contractor, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1 :

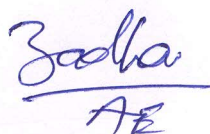
Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	07-01-15	14-01-15	07	22500	385	17.11	17.33
	002	"	"	"	"	400	17.77	
	003	"	"	"	"	385	17.11	
2	004	"	"	"	"	400	17.77	17.62
	005	"	"	"	"	390	17.33	
	006	"	"	"	"	400	17.77	
3	007	"	"	"	"	395	17.55	17.77
	008	"	"	"	"	410	18.22	
	009	"	"	"	"	395	17.55	

*As Furnished by Client.

The Results relate only to the items tested.

Page No. 1/1,


G.R. HARISH
Professor
Department of Civil Engineering
Jnana Bharathi Campus
BANGALORE UNIVERSITY
Bangalore-560 056.


AE


Dr. MANJESH .L
ME(Civil Engg) Ph.D. MISTE, MIRC
Associate Professor
Department of Civil Engineering
Bangalore University, Jnanabharathi Campus,
BANGALORE 560 056.
E-mail: manjeshl@yahoo.com

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CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₁₅

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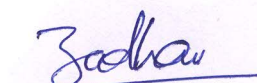
Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm ²	Maximum Load in K.N	Compressive Strength (N/ mm ²)	Avg. Value
1	001	08-01-15	16-01-15	08	22500	310	13.77	13.55
	002	"	"	"	"	305	13.55	
	003	"	"	"	"	300	13.33	

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G.R. HARISH
Professor
Department of Civil Engineering
Jnana Bharathi Campus
BANGALORE UNIVERSITY
Bangalore-560 056.


Jodha
AE


Dr. MANJESH L
ME(Civil Engg) Ph.D. MISTE, MIRC
Associate Professor
Department of Civil Engineering
Bangalore University, Jnanabharathi Campus,
BANGALORE - 560 056.
E-mail: manieshl@yahoo.com

BUB/CTE/2014-15

DATE: 26-12-2014

1. TEST REPORT ON BRICKS:

Sub: Test Report on Bricks.

{Project*: Construction of 3 Bus Stops in Ward No.10 (Doddabommasandra)
Vidyaraynapura Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 23-12-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaraynapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: Sri.K.V.Subbareddy, Contractor, Bangalore.

TABLE I. WATER ABSORPTION TEST:

Sl No	Brand Name	Water absorption %	Average value %	Normal Values
1	001	8.70	8.88	As per IS:1077-1992 water absorption shall not be more than 20.00%
2	002	8.80		
3	003	9.00		
4	004	9.10		
5	005	8.80		

II. COMPRESSIVE STRENGTH :

Sl No	Brand Name	Compressive Strength N/Sq.mm	Average value N/Sq.mm	Normal Values
1	001	5.90	6.00	-----
2	002	6.10		
3	003	6.00		
4	004	5.90		
5	005	6.10		

III. EFFLORSCENCE:

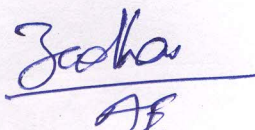
Sl No	Brand	Efflorescence	Explanation as per IS: 3495:1992(Part-II)
1	001	Nil	Not more than 10 % of the exposed area of the brick is covered with a thin deposit of salts.
2	002	Nil	
3	003	Nil	
4	004	Nil	
5	005	Nil	

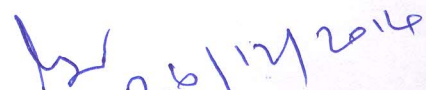
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G.R. HARISH
Professor
Department of Civil Engineering
Jnana Bharathi Campus
BANGALORE UNIVERSITY
Bangalore-560 056.


Dr. Manjesh L
ME(Civil Engg) Ph.D. MISTE, MIRC
Associate Professor
Department of Civil Engineering
Bangalore University, Jnanabharathi Campus,
BANGALORE 560 056.
E-mail: maniesnl@yahoo.com


Dr. Manjesh L
ME(Civil Engg) Ph.D. MISTE, MIRC
Associate Professor
Department of Civil Engineering
Bangalore University, Jnanabharathi Campus,
BANGALORE 560 056.
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RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M₂₀

TABLE 1.1 :

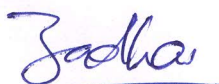
Sl No	Location/ Identification *	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm ²	Maximum Load in K.N.	Compressive Strength (N/ mm ²)	Avg. Value
1	001	07-01-15	14-01-15	07	22500	385	17.11	17.33
	002	"	"	"	"	400	17.77	
	003	"	"	"	"	385	17.11	

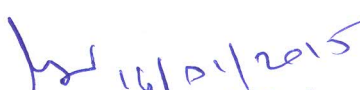
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G.R. HARISH
Professor
Department of Civil Engineering
Jnana Bharathi Campus
BANGALORE UNIVERSITY
Bangalore-560 056.

Page No. 1/1,


AB


Dr. MANJESH .L
ME (Civil Engg.), Ph D MISTE.MIRC
Associate Professor
Department of Civil Engineering
Bangalore University Jnana Bharathi Campus
BANGALORE- 560 056
e-mail: manjeshl@yahoo.com

BUB/CTE/2014-15

1. TESTING OF FINE AGGREGATES:

Date: 26-12-2014

Sub: Testing of Fine Aggregates.

{Project*: Construction of 3 Bus Stops in Ward No.10 (Doddabommasandra)
Vidyaraynapura Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 23-12-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaraynapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: Sri.K.V.Subbareddy, Contractor, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002)			Remarks
		Percentage Passing			
		Zone-I	Zone-II	Zone -III	
04.75	97.20	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	84.00	60-95	75-100	85-100	
01.18	76.30	30-70	55-90	75-100	
600. mic	49.00	15-34	35-59	60-79	
300.mic	19.20	5-20	8-30	12-40	
150.mic	2.90	0-10	0-10	0-10	

TABLE 1.2 :

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Silt Content	001	1.45 %	Not more than 8%
2.	Specific Gravity	----	2.53	-----

*As Furnished by Client.

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G.R. HARISH

Professor
Department of Civil Engineering
Jnana Bharathi Campus
BANGALORE UNIVERSITY
Bangalore-560 056.

Dr. MANJESH .L

ME (Civil Engg.) Ph D MISTE.MIRC
Associate Professor
Department of Civil Engineering
Bangalore University Jnanabharathi Campus
BANGALORE- 560 056
e-mail. manjeshl@yaho.com

BUB/CTE/2014-15

1. TESTING OF COARSE AGGREGATES (40 mm):

Date: 26-12-2014

Sub: Testing of Coarse Aggregates.

{Project*: Construction of 3 Bus Stops in Ward No.10 (Doddabommasandra)
Vidyaraynapura Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 23-12-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaraynapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: Sri.K.V.Subbareddy, Contractor, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing 40 mm Sample	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
		Single size	Graded
40mm	97.20	85-100	95 - 100
20mm	66.30	0 -20	30- 70
10mm	24.10	0 -5	10- 35
4.75mm	Nil	-----	0 - 5

TABLE 1.2 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	As above	15.70 %	Not to exceed 25 %
2.	Crushing value	-----,,-----	26.30%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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G.R. HARISH
Professor
Department of Civil Engineering,
Jnana Bharathi Campus
BANGALORE UNIVERSITY,
Bangalore-560 056.

Dr. MANJESH .L
ME (Civil Engg.), Ph D MISTE.MIRC
Associate Professor
Department of Civil Engineering
Bangalore University Jnanabharathi, Campus
BANGALORE- 560 056
e- mail. manjeshl@yahoo.com

BUB/CTE/2014-15.

1. TEST REPORT ON CEMENT:

Date: 02-01-2015

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).

{Project*: Construction of 3 Bus Stops in Ward No.10 (Doddabommasandra)
Vidyaraynapura Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 23-12-2014

Sample supplied to lab by : Assistant Executive Engineer,
Vidyaraynapura Sub Division,
BBMP, Bangalore

Name of the Contractor/Agency*: Sri.K.V.Subbareddy, Contractor, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand* : Birla
Grade * : 53
Type * : OPC
Date : 24-12-2014 to 31-12-2014

SL No	Name of Test	Results	Requirements as per IS 12269-1987
		Cement Sample	
1	Initial setting time	160min	Shall not be less than 30 min
2	Final setting time	260min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.60 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.70 mm	Shall not be more than 10 mm
5	Compressive strength		
	a) 3 days (average of three results) b) 7 days (average of three results)	28.90 N/ Sq mm 40.00 N/Sq mm	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

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Professor
Department of Civil Engineering
Jnana Bharathi Campus
BANGALORE UNIVERSITY
Bangalore-560 056.

Dr. MANJESH .L
ME (Civil Engg.), Ph D. MISTE.MIRC
Associate Professor
Department of Civil Engineering
Bangalore University Jnanabharathi Campus
BANGALORE- 560 056
e-mail. manjeshl@yale.com

BANGALORE UNIVERSITY

DEPARTMENT OF CIVIL ENGINEERING

Phone Off: 080-22961935 / 1946
E-mail: centrans9@gmail.com

JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2014-15

Date: 26-12-2014

1. TEST REPORT ON REINFORCEMENT STEEL :

Sub: Testing of Reinforcement Steel of diameter 10mm.

{Project*: Construction of 3 Bus Stops in Ward No.10 (Doddabommasandra)
Vidyaraynapura Sub-Division}

Ref. : Letter No. Testing/BUB/2014-15, dated 23-12-2014

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Name of the Contractor/Agency*: Sri.K.V.Subbareddy, Contractor, Bangalore.

TABLE - 1

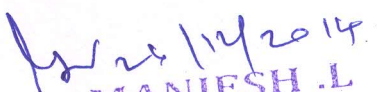
SL No	Details	For 10mm	
		Test Results	Min Req as per IS 1786-2008
01	Observed diameter of bar	10.0mm	10.0mm
02	Observed Wt/m Length Kg/m	0.621	0.567
03	Proof stress/Yield stress, f_y , N/mm^2	558.0	500.0
04	Bend/ Re bend Test	Ok	---
05	Percentage of Elongation, %	19.60	12.00
06	Ultimate Tensile Strength N/mm^2	624.0	545.0

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Professor
Department of Civil Engineering
Jnana Bharathi Campus
BANGALORE UNIVERSITY
Bangalore-560 056.

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Dr. MANJESH .L
ME (Civil Engg.), Ph D MISTE.MIRC
Associate Professor
Department of Civil Engineering
Bangalore University Jnanabharathi Campus
BANGALORE- 560 056
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